## WHAT IS CLAIMED IS:

1. An OLED device comprising a light-emitting layer (LEL) containing a host and an emitting dopant located between a cathode and an anode wherein the dopant is an orange-red light emitting rubrene derivative represented by formula (I):

Formula (I)

## wherein:

- a) there are identical branched alkyl or non-aromatic carbocyclic groups at the 2- and 8-positions;
- b) the phenyl rings in the 5- and 11-positions contain only parasubstituents identical to the branched alkyl or non-aromatic carbocyclic groups in paragraph a); and
  - c) the phenyl rings in the 6- and 12-positions are substituted.
- 2. The device of claim 1 comprising a further light-emitting compound to provide a white light emission.
- 3. The device of claim 2 further comprising a blue light-emitting compound to provide a white light emission.

- 4. The device of claim 2 further comprising a filter over-lying the device.
- 5. The device of claim 2 wherein the layer comprises a host and dopant where the dopant is present in an amount of up to 10%-wt of the host.
- 6. The device of claim 5 wherein the dopant is present in an amount of 0.1-5.0%-wt of the host.
- 7. The device of claim 1 wherein the dopant is represented by formula (II):

$$R_1$$
 $R_1$ 
 $R_1$ 
 $R_1$ 
 $R_1$ 
 $R_1$ 
Formula (II)

wherein

R<sub>1</sub> is represented by the formula;

$$\frac{R_3}{R_6}$$

wherein each of R<sub>3</sub>, R<sub>4</sub> and R<sub>5</sub> is hydrogen or an independently selected substituent with no more than one being hydrogen or R<sub>3</sub>, R<sub>4</sub> and R<sub>5</sub> taken together can form a mono- or multi-cyclic ring system;

R<sub>2</sub> is a substituent group;

n is 1-5;

provided that all R<sub>1</sub> groups are the same; and

provided further, that the R<sub>2</sub> groups, their location and n value on one ring are the same as those on the second ring.

8. The device of claim 1 wherein the dopant is represented by formula (III):

Formula (III)

wherein

R<sub>2</sub> is a substituent group;

n is 1-5; and

provided that the R<sub>2</sub> groups, their location and n value on one ring are the same as those on the second ring.

9. The device of claim 1 wherein the dopant is represented by formula (IV):

$$(R_2)_n$$

Formula (IV)

wherein

W represents the atoms necessary to complete a non-aromatic heterocyclic or non-aromatic carbocyclic ring group;

R<sub>2</sub> is a substituent group;

n is 0-5; and

provided that the R<sub>2</sub> groups, their location and n value on one ring are the same as those on the second ring;.

- 10. The device of claim 7 comprising a further light-emitting compound to provide a white light emission.
- 11. The device of claim 10 further comprising a blue light-emitting compound to provide a white light emission.
- 12. The device of claim 10 further comprising a filter over-lying the device.

- 13. The device of claim 9 wherein W represents the atoms to complete a cyclohexane ring.
- 14. The device of claim 9 wherein W represents the atoms to complete an adamantane ring.
- 15. The device of claim 7 wherein  $R_2$  is located in meta or para positions of the phenyl groups.
- 16. The device of claim 7 wherein R<sub>2</sub> are independently selected from the group consisting of fluorine, fluorine containing groups, alkyl, aryl, alkoxy and aryloxy groups.
  - 17. The device of claim 7 wherein  $R_2$  is phenyl.
  - 18. The device of claim 7 wherein  $R_2$  is fluorine.
  - 19. The device of claim 7 wherein  $R_2$  is a fluorine-containing group.
- 20. The device of claim 7 wherein R<sub>2</sub> is selected from trifluoromethyl, pentafluoroethyl and fluorinated-phenyl groups.
- 21. The device of claim 7 wherein  $R_3$ ,  $R_4$  or  $R_5$  is selected from trifluoromethyl, pentafluoroethyl and fluorinated-phenyl groups.
  - 22. The device of claim 1 wherein the host is an amine compound.
- 23. The device of claim 1 wherein the host comprises N,N'-di-1-naphthalenyl-N,N'-diphenyl-4, 4'-diaminobiphenyl.

- 24. The device of claim 7 wherein the substituents are selected to provide an emitted light having an orange-red hue.
- 25. The device of claim 7 wherein the substituents are selected to provide a reduced loss of initial luminance compared to the device containing no rubrene.
- 26. The device of claim 7 wherein the layer comprises a host and dopant where the dopant is present in an amount of up to 10%-wt of the host.
- 27. The device of claim 26 wherein the dopant is present in an amount of 0.1-5.0%-wt of the host.
- 28. The device of claim 1 wherein the rubrene compound is selected from the following:

29. An OLED device comprising a light-emitting layer (LEL) containing a host and a dopant located between a cathode and an anode wherein the emitter is an orange-red light emitting rubrene derivative represented by formula (I):

Formula (I)

wherein:

- a) there are identical branched alkyl or non-aromatic carbocyclic groups at the 2- and 8-positions;
- b) the phenyl rings in the 5- and 11-positions contain only parasubstituents identical to the branched alkyl or non-aromatic carbocyclic groups in paragraph a);
- c) the phenyl rings in the 6- and 12-positions are substituted or not; provided that the wavelength of maximum emission ( $\lambda_{max}$ ) in ethyl acetate solution is such that 563nm <  $\lambda_{max} \leq 650$ nm.
- 30. An OLED device of claim 29 wherein the rubrene derivative has a wavelength of maximum emission ( $\lambda_{max}$ ) in ethyl acetate solution such that  $565 \text{nm} < \lambda_{max} \leq 625 \text{nm}$ .
  - 31. A light-emitting device containing the OLED device of claim 1.
  - 32. A light-emitting display containing the OLED device of claim 1.

33. A method of emitting light comprising subjecting the device of claim 1 to an applied voltage.